

What is claimed is:

1. An image forming and recording apparatus, having a fixing apparatus for fixing unfixed toner image on a recording medium, wherein said fixing apparatus comprises:

5 a fixing roller integrating a heater therein;

an endless belt wound around said fixing roller; and

three (3) pressure members for pressing said endless belt onto said fixing roller, wherein second one from a side of entry of paper is made at maximum in pressure loading, among said three
10 (3) pressure members.

2. An image forming and recording apparatus, having a fixing apparatus for fixing unfixed toner image on a recording medium, wherein said fixing apparatus comprises:

a fixing roller integrating a heater therein; and

15 an endless belt wound around said fixing roller, wherein pressure, being applied onto said fixing roller through said endless belt, has three (3) peaks, and pressure of a second peak from a side of entry of paper is larger than those of other two (2) peaks, among said three (3) peaks.

20 3. An image forming and recording apparatus, as defined in the claim 1 or 2, wherein the pressure member located at nearest to the side of entry of paper among said three (3) pressure members is made up with a non-rotary type pressure member, and other two (2) pressure members are made up with either one of a rotary type
25 pressure member and the non-rotary type pressure member.

4. An image forming and recording apparatus, as defined in any one of the claims 1 to 3, wherein contact widths of said three (3) pressure members, where they are pressing on said fixing roller through said endless belt, are in an order of: the pressure

member of paper entry side, the central pressure member, and the pressure member of paper exit side, in sizes thereof.

5 5. An image forming and recording apparatus, as defined in the claim 4, wherein surface pressures of said three (3) pressure members, where they are pressing on said fixing roller through said endless belt, are: from 0.05 (MPa) to 0.2 (MPa) at the pressure member of paper entry side, from 0.2 (MPa) to 0.50 (MPa) at the central pressure member, and from 0.1 (MPa) to 0.3 (MPa) at the pressure member of paper exit side, in amplitude thereof.

10 6. An image forming and recording apparatus, as defined in any one of the claims 1 to 5, wherein a heat-insulating layer is formed on surface of the pressure member(s) of said fixing apparatus.

15 7. An image forming and recording apparatus, as defined in any one of the claims 1 to 5, wherein said fixing apparatus comprises a non-rotary pressure member, and a sheet-like member is inserted between said non-rotary pressure member and said endless belt, whereby letting said sheet-like member to hold lubricant therein.

20 8. An image forming and recording apparatus, as defined in the claim 7, wherein said sheet-like member is made of fluorine fiber, and said lubricant is fluorine oil.

25 9. An image forming and recording apparatus, as defined in the claim 7, wherein a lubricant supply portion is provided at a portion of said sheet-like member, other than where said sheet-like member is put and pressed between said non-rotary type pressure member and said endless belt, whereby said lubricant supply portion has no contact with an inner peripheral surface of said belt.

30 10. An image forming and recording apparatus, as defined in any one of the claims 1 to 9, further comprising a single intermediate transcription body, on which are superimposed

respective color toner images formed on a photosensitive body,
and wherein a toner is used as a medium for manifesting electrostatic
images, to be used in images forming, said toner being able to ensure
releasing property from said fixing roller without supplying a
5 liquid releasing agent to said fixing roller in said fixing
apparatus.